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Education

11/2016—02/2017

Visiting scholar at University of Houston.

Advisor: Dr. Xiaolian Gao and Dr. Jian Xu

06/2015--Today

Post-doctoral in Single Cell Center

School of Life Science, Qingdao Institute of Bioenergy and Bioprocess Technology (QIBEBT), Chinese Academy of science

Advisor: Dr. Jian Xu

09/2010--06/2015

Ph.D. in Synthetic Biology

School of Life Science, University of Science and Technology of China

Advisor: Dr. Xiaolian Gao and Dr. Jiong Hong

09/2006--07/2010

Bachelor of Science in Biological Sciences

School of Life Science, Shandong Normal University

Publications

Journal articles:

1. **Zhang, J.**, Zhang, B., Wang, D.M., Gao, X.L., Hong, J^(*), 2015. Rapid ethanol production at elevated temperatures by engineered thermotolerant *Kluyveromyces marxianus* via the NADP(H)-preferring xylose reductase-xylitol dehydrogenase pathway. *Metabolic Engineering*, 31, 140-152.

(IF=8.142)

2. **Zhang, J.**, Zhang, B., Wang, D.M., Gao, X.L., Hong, J^(*), 2014. Xylitol production at high temperature by engineered *Kluyveromyces marxianus*. *Bioresource Technology*, 152, 192-201.

(IF=5.651)

3. **Zhang, J.**, Zhang, B., Wang, D.M., Gao, X.L., Hong, J^(*), 2015. Improving xylitol production at elevated temperature with engineered *Kluyveromyces marxianus* through over-expressing transporters. *Bioresource Technology*, 175, 642-645. **(IF=5.651)**

4. Zhang, B^(#), **Zhang, J^(#) (Co-author)**, Wang, D.M., Han, R.X., Ding, R., Gao, X.L., Sun, L.H., Hong, J^(*), 2016. Simultaneous fermentation of glucose and xylose at elevated temperatures co-produces ethanol and xylitol through overexpression of a xylose-specific transporter in engineered *Kluyveromyces marxianus*. *Bioresource Technology*, 216, 227-237. **(IF=5.651)**

5. Zhang, B., Li, L.L., **Zhang, J.**, Gao, X.L., Wang, D.M., Hong, J^(*), 2013. Improving ethanol and xylitol fermentation at elevated temperature through substitution of xylose reductase in *Kluyveromyces marxianus*. *Journal of Industrial Microbiology Biotechnology*, 40, 305-316.

(IF=2.810)

6. Wan, W., Li, L.L., Xu, Q.Q., Wang, Z.F., Yao, Y., Wang, R.L., **Zhang, J.**, Liu, H.Y., Gao, X.L., Hong, J^(*), 2014. Error removal in microchip-synthesized DNA using immobilized MutS.

Nucleic Acids Research, 42. **(IF=10.162)**

7. Zhang, B., Zhu, Y.L., **Zhang, J.**, Gao, X.L., Wang, D.M., Hong, J^(*)., 2016. Engineered *Kluyveromyces marxianus* for pyruvate production at elevated temperature with simultaneous consumption of xylose and glucose . *Bioresource Technology*. (IF=5.651)

Patents:

1. Chinese patent: Hong, J., **Zhang, J.** Xylitol production at high temperature by engineered *Kluyveromyces marxianus*. 2017.6.16, China, 201410727487.3

2. Chinese patent: Hong, J., **Zhang, J.**, Zhang, B. Ethanol production and application at high temperature by engineered *Kluyveromyces marxianus*. 2016.7.13, China, 201410380023.X

3. Chinese patent: Hong, J., **Zhang, J.**, Zhang, B. Simultaneously xylitol and ethanol production and application at high temperature by engineered *Kluyveromyces marxianus*. 2015.7.27, China, 201510455949.5

Project:

1. National Natural Science Foundation of China, Young Scientists Fund Project, (31500073) 2016/01-2018/12, hosting

2. National Natural Science Foundation of China, (31270149) 2013/01-2016/12, participation